

Claims:

1. A hair growth promoting agent comprising a 3-position analog of cyclosporin represented by Formula 1, as an active ingredient:

[Formula 1]

MeBmt-Abu-X-MeLeu-Val-MeLeu-Ala-DAla-MeLeu-MeLeu-MeVal



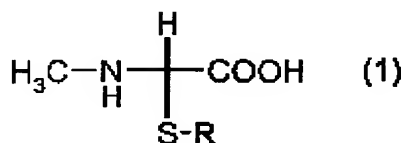
wherein:

MeBmt represents N-methyl-(4R)-4-[(E)-2-butenyl]-4-methyl-L-threonine;

Abu represents L-aminobutyric acid;

X is represented by the general formula 1,

[General formula 1]



in which,

R is one selected from the group consisting of hydrogen, thioacyl, C₂-C₆ straight or branched alkyl, alkenyl or alkynyl moieties, substituted or unsubstituted with one or more selected from the group consisting of amino, hydroxy, halo, haloalkyl, ester, alkoxy, cyano, nitro, aryl, alkylamino and dialkylamino, cyclic or aryl moieties, substituted or unsubstituted with one or more selected from the group consisting of amino, hydroxy, halo, haloalkyl, ester, alkoxy, cyano, nitro, aryl, alkylamino and dialkylamino, and (C=X')-R'

in which,

X' is oxygen or sulfur, and

R' is one selected from the group consisting of hydrogen, C₁-C₆ straight or branched alkyl, alkenyl or alkynyl moieties, substituted or unsubstituted with one or more selected from the group consisting of amino, hydroxy, halo, haloalkyl, ester, alkoxy, cyano, nitro, aryl, alkylamino and dialkylamino, and cyclic or aryl moieties, substituted or unsubstituted with one or more selected from the group consisting of amino, hydroxy, halo, haloalkyl, ester, alkoxy, cyano, nitro, aryl, alkylamino and dialkylamino,

MeLeu represents N-methyl-L-leucine;

Val represents L-valine;

Ala represents L-alanine;
DAla represents D-alanine;
MeVal represents N-methyl-L-valine.

2. The hair growth promoting agent as set forth in claim 1, wherein X is [D-2-ethylthio-sarcosine], [D-2-propylthio-sarcosine], [D-2-isopropylthio-sarcosine], [D-2-allylthio-sarcosine], [D-2-benzylthio-sarcosine], [D-2-(4-nitrophenyl)thio-sarcosine] or [D-2-(dimethylthiocarbamyl)dithio-sarcosine].

3. The hair growth promoting agent as set forth in claim 2, comprising D-2-ethylthio-sar³] cyclosporin A as an active ingredient.

4. The hair growth promoting agent as set forth in claim 2, comprising [D-2-propylthio-sar³] cyclosporin A as an active ingredient.

5. The hair growth promoting agent as set forth in claim 2, comprising [D-2-iopropylthio-sar³] cyclosporin A as an active ingredient.

6. The hair growth promoting agent as set forth in claim 2, comprising [D-2-allylthio-sar³] cyclosporin A as an active ingredient.

7. The hair growth promoting agent as set forth in claim 2, comprising [D-2-benzylthio-sar³] cyclosporin A as an active ingredient.

8. The hair growth promoting agent as set forth in claim 2, comprising [D-2-(4-nitrophenyl)thio-sar³] cyclosporin A as an active ingredient.

9. The hair growth promoting agent as set forth in claim 2, comprising [D-2-(dimethylthiocarbamyl)dithio-sar³] cyclosporin A as an active ingredient.

10. The hair growth promoting agent as set forth in claim 1, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

11. The hair growth promoting agent as set forth in claim 2, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

12. The hair growth promoting agent as set forth in claim 3, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

13. The hair growth promoting agent as set forth in claim 4, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

14. The hair growth promoting agent as set forth in claim 5, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

15. The hair growth promoting agent as set forth in claim 6, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

16. The hair growth promoting agent as set forth in claim 7, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

17. The hair growth promoting agent as set forth in claim 8, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.

18. The hair growth promoting agent as set forth in claim 9, which is formulated in a form selected from the group consisting of liquid formulation, spray, gel, paste, emulsion, cream, conditioner and shampoo.